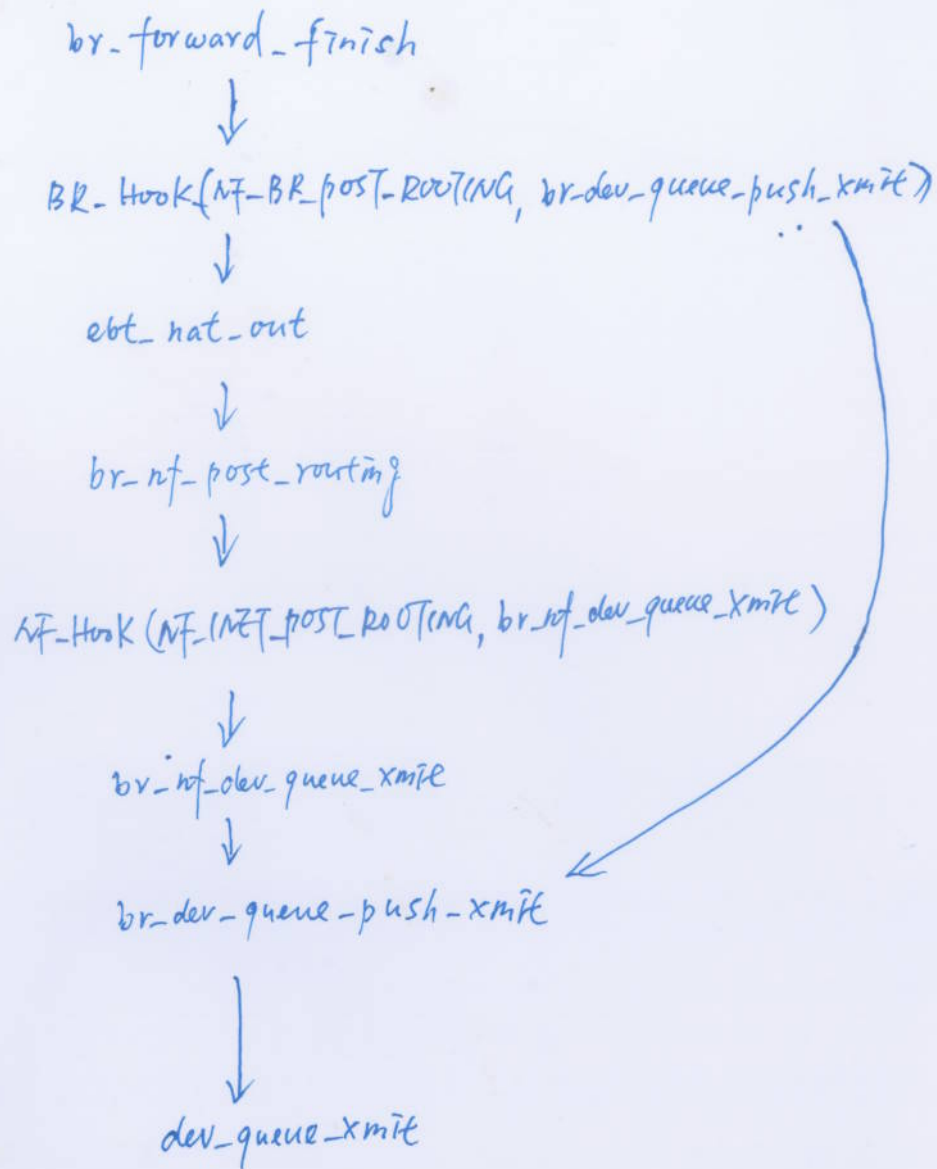
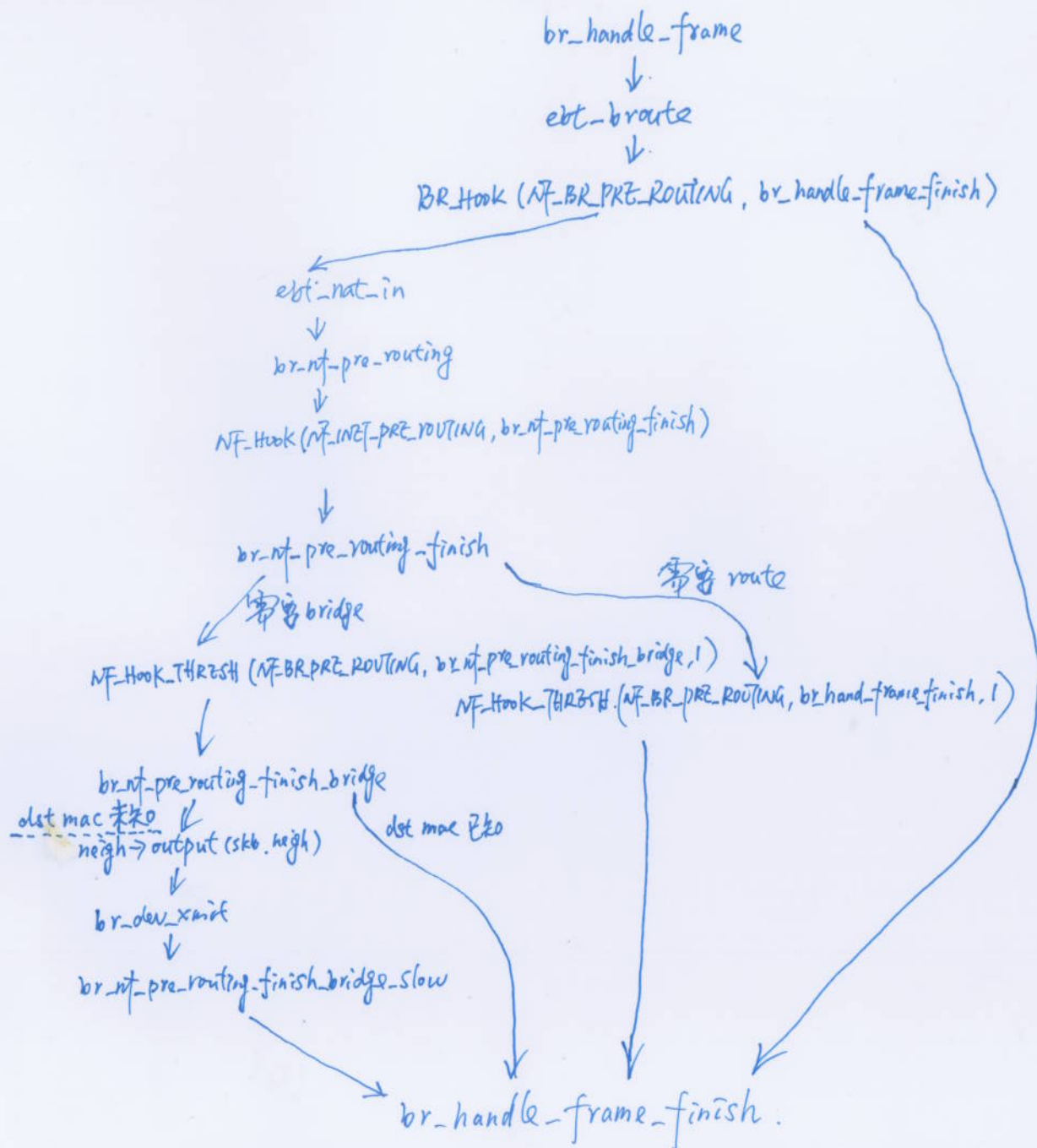


① post routing in PK is br-forward-finish



① post routing 之后从 `br-forward-finish` 开始到 `dev-queue-xmit` 结束

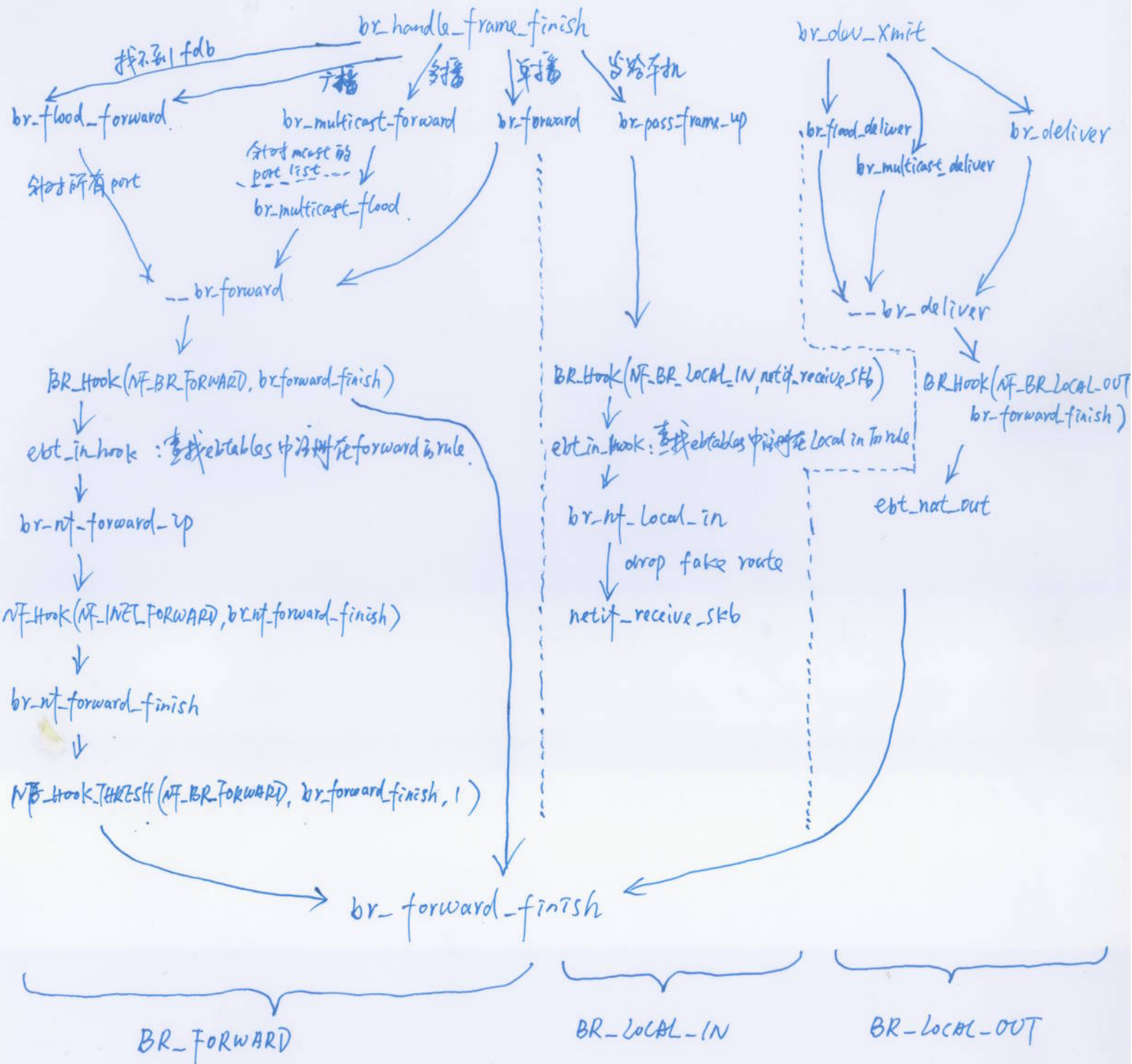


①. pre routing 阶段从 br\_handle\_frame 开始，到 br\_handle\_frame\_finish 结束

②.  $\left\{ \begin{array}{l} \text{BR\_Hook (NF\_BR\_PRE\_ROUTING, br\_handle\_frame\_finish)} \\ \text{NF\_Hook (NF\_INET\_PRE\_ROUTING, br\_nf\_pre\_routing\_finish)} \\ \text{NF\_Hook\_THRSH (NF\_BR\_PRE\_ROUTING, br\_nf\_pre\_routing\_finish\_bridge, 1)} \\ \text{NF\_Hook\_THRSH (NF\_BR\_PRE\_ROUTING, br\_handle\_frame\_finish, 1)} \end{array} \right.$

即在调用 iptables 之前和之后都会进行 ebtables





①. forward 过程从 br\_handle\_frame\_finish 开始到 br\_forward\_finish 结束  
 local in 从 br\_handle\_frame\_finish 开始到 netif\_receive\_skb 结束  
 local out 从 br\_dev\_xmit 开始到 br\_forward\_finish 结束

②. BR\_Hook(NF\_BR\_FORWARD, br\_forward\_finish)  
 NF\_Hook(NF\_INET\_FORWARD, br\_nf\_forward\_finish)  
 NF\_Hook\_THRESH(NF\_BR\_FORWARD, br\_forward\_finish, 1)  
 即在调用 iptables 之前和之后都会运行 ebttables

③. BR\_LOCAL\_IN 中并不会调用 iptables 的 NF\_INET\_LOCAL\_IN.